

### AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A microscope slide composition comprising:
  - a) a substrate with a surface comprising first and second assay locations separated from each other by a physical border, wherein said assay locations have discrete sites, said sites separated by a distance of less than 50  $\mu\text{m}$ ; and wherein said substrate comprises the dimensions of a microscope slide; and
  - b) a population of microspheres comprising at least a first and a second subpopulation, wherein said first subpopulation comprises a first bioactive agent and said second subpopulation comprises a second bioactive agent, wherein said microspheres are randomly distributed ~~on~~ at said discrete sites on said surface.
2. (Currently Amended) A The composition according to claim 1, wherein said sites are separated by a distance of less than 25  $\mu\text{m}$ .
3. (Currently Amended) A The composition according to claim 1, wherein said sites are separated by a distance of less than 15  $\mu\text{m}$ .
4. (Currently Amended) A The composition according to claim 1, 2 or 3, wherein said sites are separated by a distance of at least about 5  $\mu\text{m}$ .
5. (Canceled).
6. (Previously presented) The composition according to claim 1, wherein the distance between centers of a first and second microsphere of said first subpopulation is at least 5  $\mu\text{m}$ .
7. (Previously Presented) The composition according to claim 6, wherein the distance between said first and second microsphere of said first subpopulation is less than about 100  $\mu\text{m}$ .
8. (Canceled)
9. (Canceled)
10. (Currently Amended) A The composition according to claim 9 7, wherein the distance between a first and second microsphere of said first subpopulation is less than about 50  $\mu\text{m}$ .
11. (Currently Amended) A The composition according to claim 9 7, wherein the distance between a first and second microsphere of said first subpopulation is less than about 15  $\mu\text{m}$ .

12. (Currently Amended) A The composition according to claim 9 7, 10 or 11, wherein the distance between said first and second microsphere of said first subpopulation is at least about 5  $\mu\text{m}$ .

Claims 13-17 (Canceled).

18. (Currently Amended) A method for making a microscope slide composition comprising:

a) providing a substrate with a surface comprising first and second assay locations separated from each other by a physical border, wherein said assay locations have discrete sites, said sites separated by a distance of less than 50  $\mu\text{m}$ , and wherein said substrate comprises the dimensions of a microscope slide; and

b) randomly distributing a population of microspheres comprising at least a first and a second subpopulation at said discrete sites, wherein said first subpopulation comprises a first bioactive agent and said second subpopulation comprises a second bioactive agent.

19. (Currently Amended) The method according to claim ~~26~~ 18, wherein said ~~wells~~ discrete sites are separated by a distance of less than 25  $\mu\text{m}$ .

20. (Currently Amended) The method according to claim ~~26~~ 18, wherein said ~~wells~~ discrete sites are separated by a distance of less than 15  $\mu\text{m}$ .

21. (Previously presented) The method according to claim 18, wherein the ratio of said first and said second subpopulation is at least 1 : 36.

22. (Previously presented) The method according to claim 18, wherein the ratio of said first and said second subpopulation is at least 1 : 100.

23. (Previously presented) The method according to claim 18, wherein the distance between the centers of a first and second microsphere of said first subpopulation is at least 5  $\mu\text{m}$ .

24. (Previously presented) The method according to claim 18, wherein the distance between the centers of a first and second microsphere of said first subpopulation is at least 15  $\mu\text{m}$ .

25. (Previously presented) The method according to claim 18, wherein the distance between a first and second microsphere of said first subpopulation is at least 50  $\mu\text{m}$ .

26. (Canceled)

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27. (Previously presented) The method according to claim 18, wherein said discrete sites are wells.